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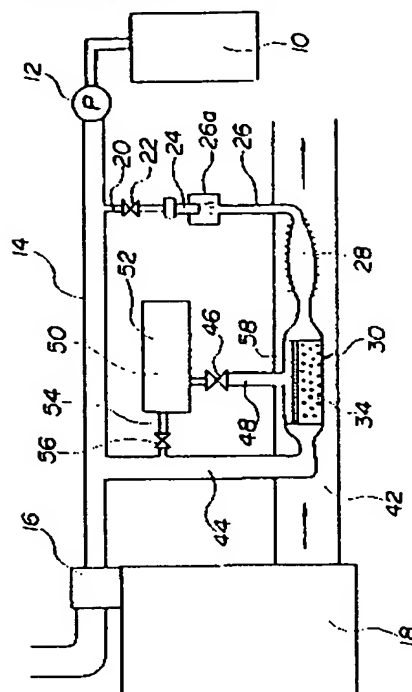
APPLICATION DATE : 27-05-86  
APPLICATION NUMBER : 61120320

APPLICANT : MAZDA MOTOR CORP;

INVENTOR : JITSUMATSU HIROAKI;

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TITLE : REFORMED FUEL FEEDING DEVICE  
FOR ENGINE



ABSTRACT : PURPOSE: To maintain the hydrogen occluding performance of metal hydride for a long time by providing a palladium group separating film for allowing hydrogen gas to permeate close to a reforming device, in a device in which said hydrogen gas produced by said reforming device is temporarily stored in said metal hydride.

CONSTITUTION: A fuel tank 10 for alcohol, etc., is connected to a carburetor 16 via a fuel feed pipe 14 having a liquid feed pump 12. The branched pipe 20 of the fuel feed pipe 14 is connected to a vaporizer 28 and a reforming device 30 which are provided in an exhaust pipe 42, via a first valve 22, an alcohol spray nozzle 24, and the rear end expanded part 26a of a connecting pipe 26. A reforming catalyst 34 is housed in the reforming device 30 and connected to a metal hydride 52 via a palladium group separating film 58 for allowing a hydrogen gas to permeate and a second valve 46. A third valve 56 is provided in the bypass pipe 54 of the metal hydride 52, and is opened at the time of starting to feed hydrogen into a reformed gas passage 44.

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